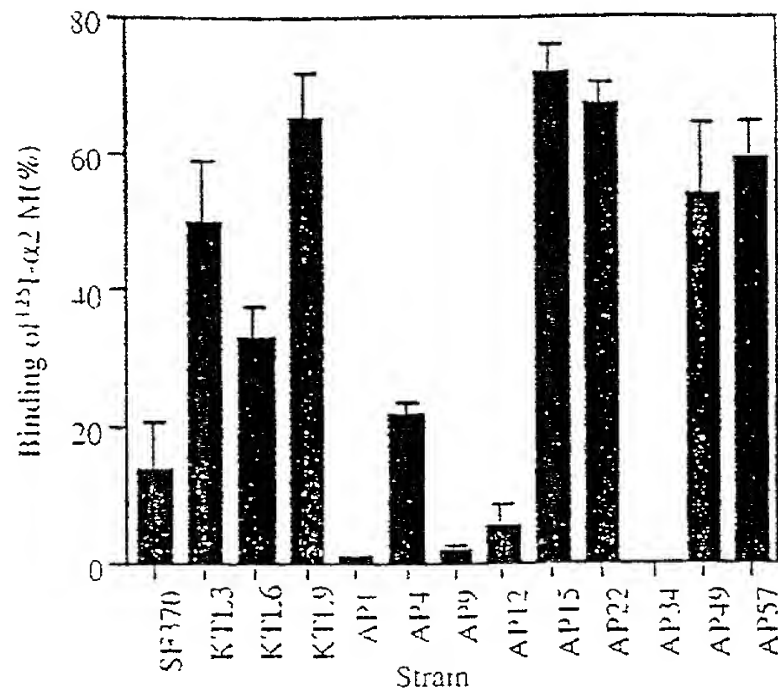
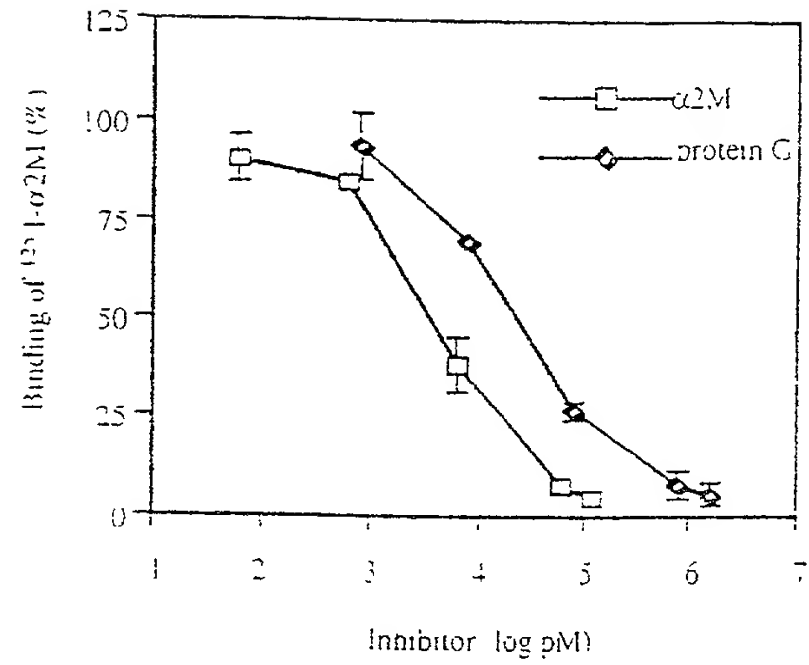


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A.



B.



C.

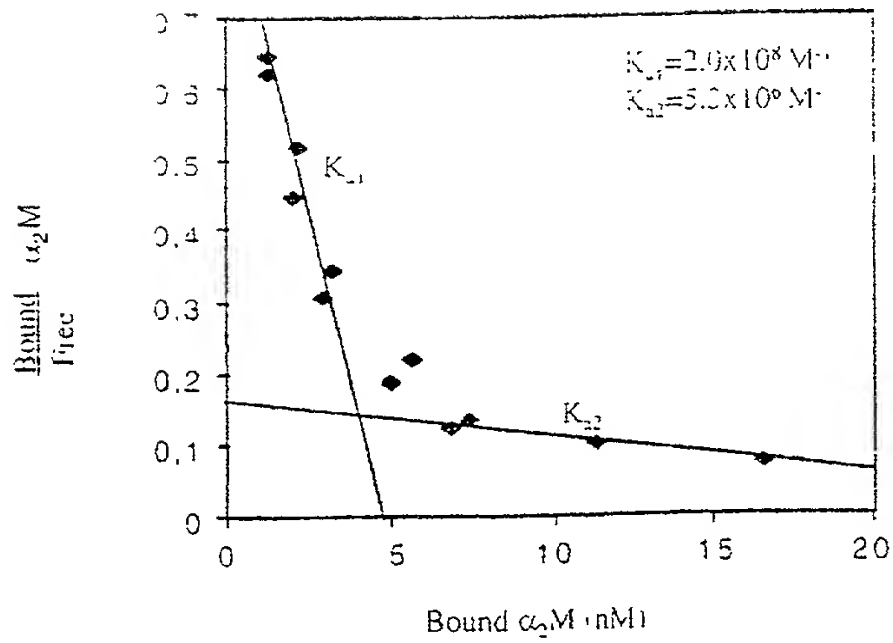
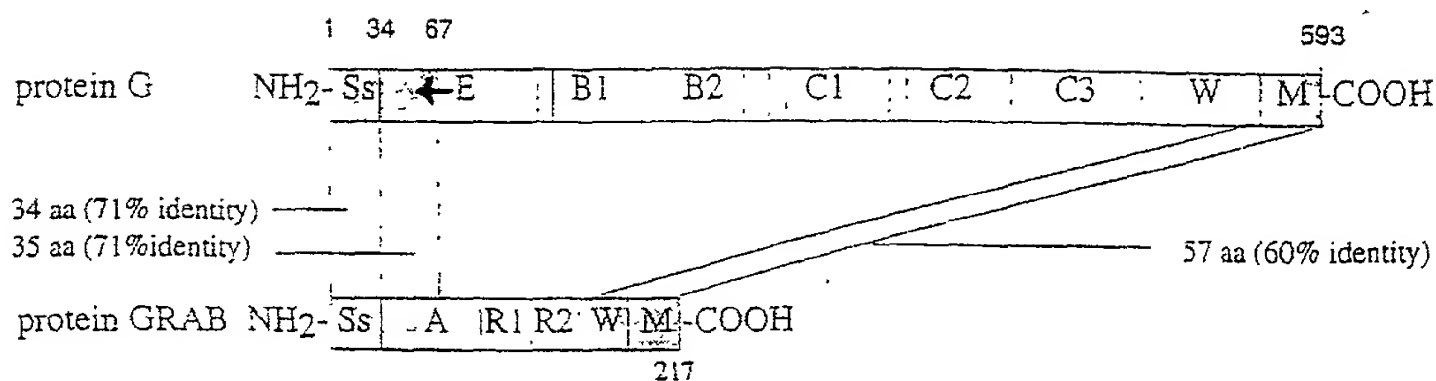


FIG. 1

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A.



B.

```

TTTCCAAATTATCGGTAATTAAATATGCTAATGCATATAAAAAATAAAAAAGGAGAAACA 60
ATGGGAAAAGAAATAAAAGTGAAATGCTTTTTCGCTAGATCAGCTTTTGGATTAGTTGCG 120
M G K E I K V K C F L R R S A F G L V A 20
└─┬─ Ss
GTGTCAGCATCAGTATTAGTCGGTTCAACAGTATCTGCTGTTGACTCACCTATCGAACAG 180
V S A S V L V G S T V S A V D S P I E Q 40
└─┬─ A
CCTCGAATTATTCCAAATGGCGGAACCTTAACTAATCTTCTTGGCAATGCTCCAGAAAAA 240
P R I I P N G G T L T N L L G N A P E K 60

CTGGCATTACGTAATGAAGAAAGAGCCATTGATGAATTAATAAAAAACAAGCTATTGAGGAT 300
L A L R N E E R A I D E L K K Q A I E D 80

AAAGAAGCTACGACAGCTATAGAAGCAGCAAGTTCAGATGCCTTAGAAGCATTAGCGGAT 360
K E A T T A I E A A S S D A L E A L A D 100
└─┬─ R1
CAAACAGACGCTTTACAATCAGAAGAAGCTGCGGTGTTAAAGCGGATAACGCTGCTAGT 420
Q T D A L Q S E E A A V V K A D N A A S 120
└─┬─ R2
GACGCCTTAGAAGCATTGGCGGATCAAACAGACGCTTTACAATCAGAAGAAGCTGAAGTA 480
D A L E A L A D Q T D A L Q S E E A E V 140

GTTCAATCAGATAACGCTGCTAGTGACGCCTGGGAAAAAGCAGCAACTCCAATCGCTTTA 540
V Q S D N A A S D A W E K A A T P I A L 160
└─┬─ W
GATGTTAAGAAAACTAAAGATACAAAACCTGTAGTTAAAAAAGAAGAAAGACAAAACGTT 600
D V K K T K D T K P V V K K E E R Q N V 180

AATACCCTTCCTACAACCTGGTGAAGAGTCTAACCCATTCTTTACAGCTGCTGCGCTTGCA 660
N T L P T T G E E S N P F F T A A A L A 200
└─┬─ M
ATAATGGTAAGTACAGGTGTGTTAGTTGTAAGTTCAAAGTGCAAAGAAAATTAGTTGCTAT 720
I M V S T G V L V V S S K C K E N . 217

TTGTTCTAGCAAATGAAACAAGGGAATCGAAAGATTCTCTTTTT 764

```

FIG. 2

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A.

<u>Strain</u>	<u>Serotype</u>	<u>Size of PCR product</u>	<u>Putative number of repeats</u>
AP1	1	500	2 ¹
KTL3	1	500	2 ¹
KTL6	1	500	2
KTL9	1	650	4 ¹
AP4	4	500	2
AP9	9	NA ²	-
AP12	12	500	2
AP15	15	850	6
AP22	22	650	4
AP34	34	650	4
AP49	49	750	5 ¹
AP57	57	500	2

¹Confirmed by sequencing²Not amplifiable

B.

SF370	NH ₂ -		R	R		-COOH		
KTL3	NH ₂ -		R	R		-COOH		
AP1	NH ₂ -		R	R		-COOH		
KTL9	NH ₂ -		R	R	R	R	-COOH	
AP49	NH ₂ -		R	R	R	R	R	-COOH
		57/58 aa identical	48/56 aa identical		-	41/42 aa identical		

FIG. 3

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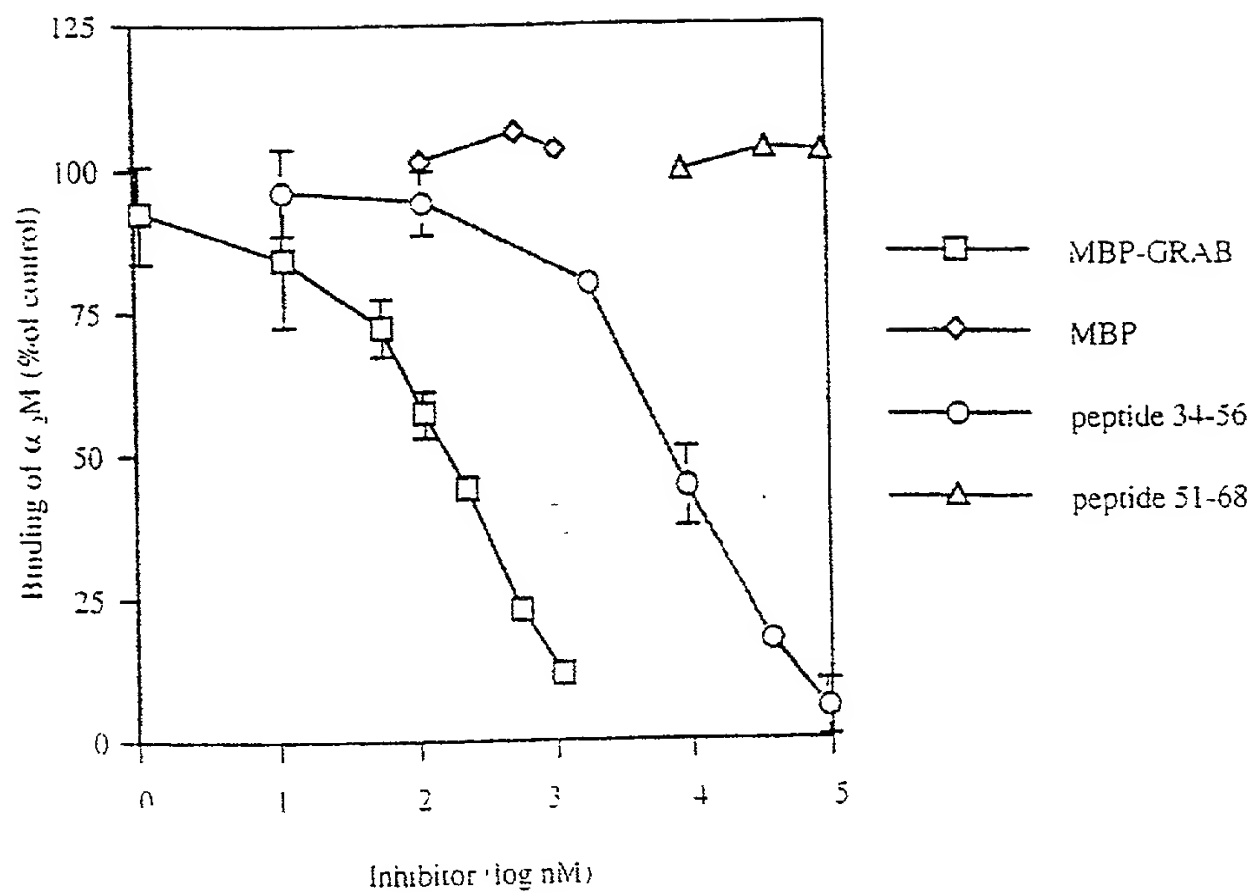


FIG. 4

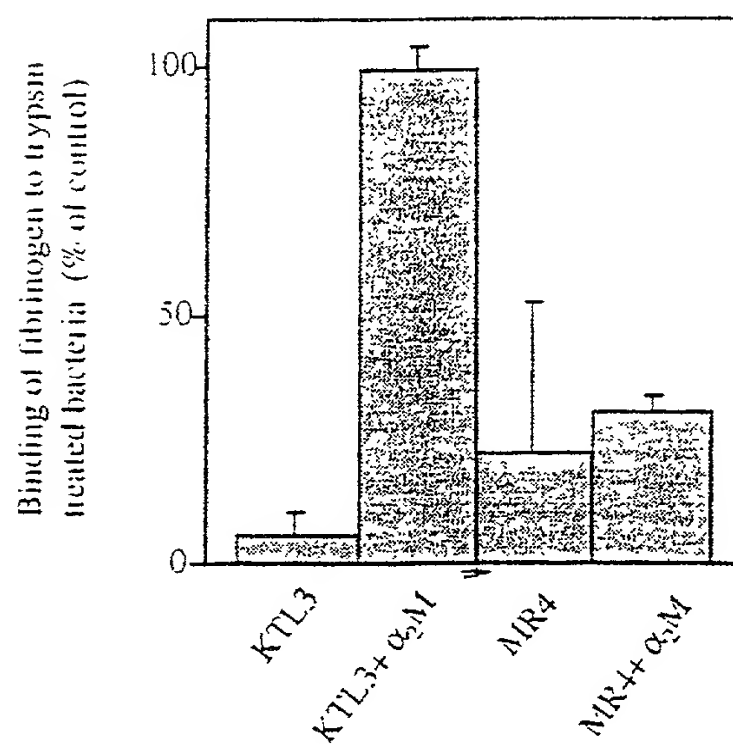


FIG. 6

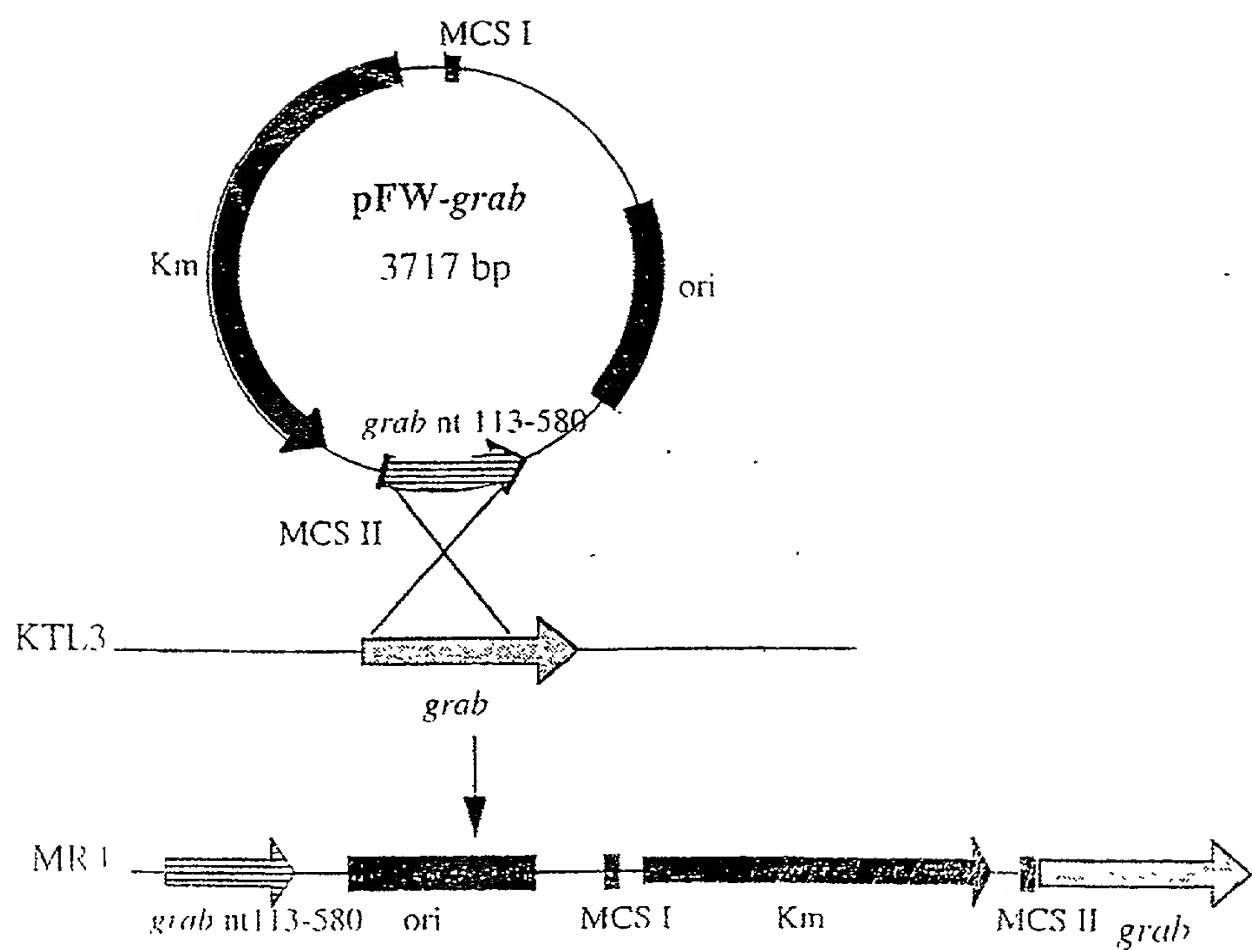


FIG. 5

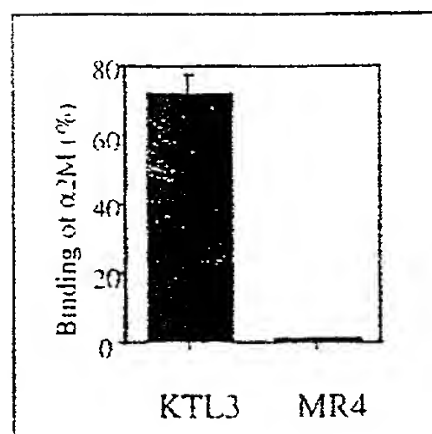


FIG. 5

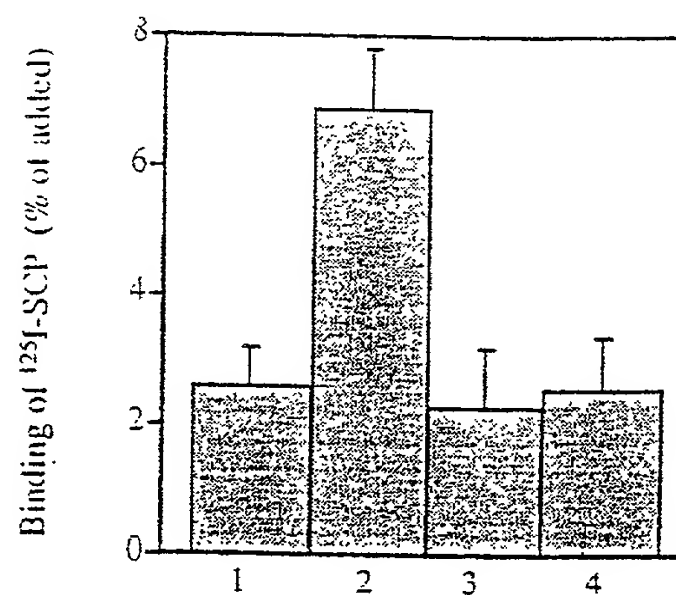


FIG. 7

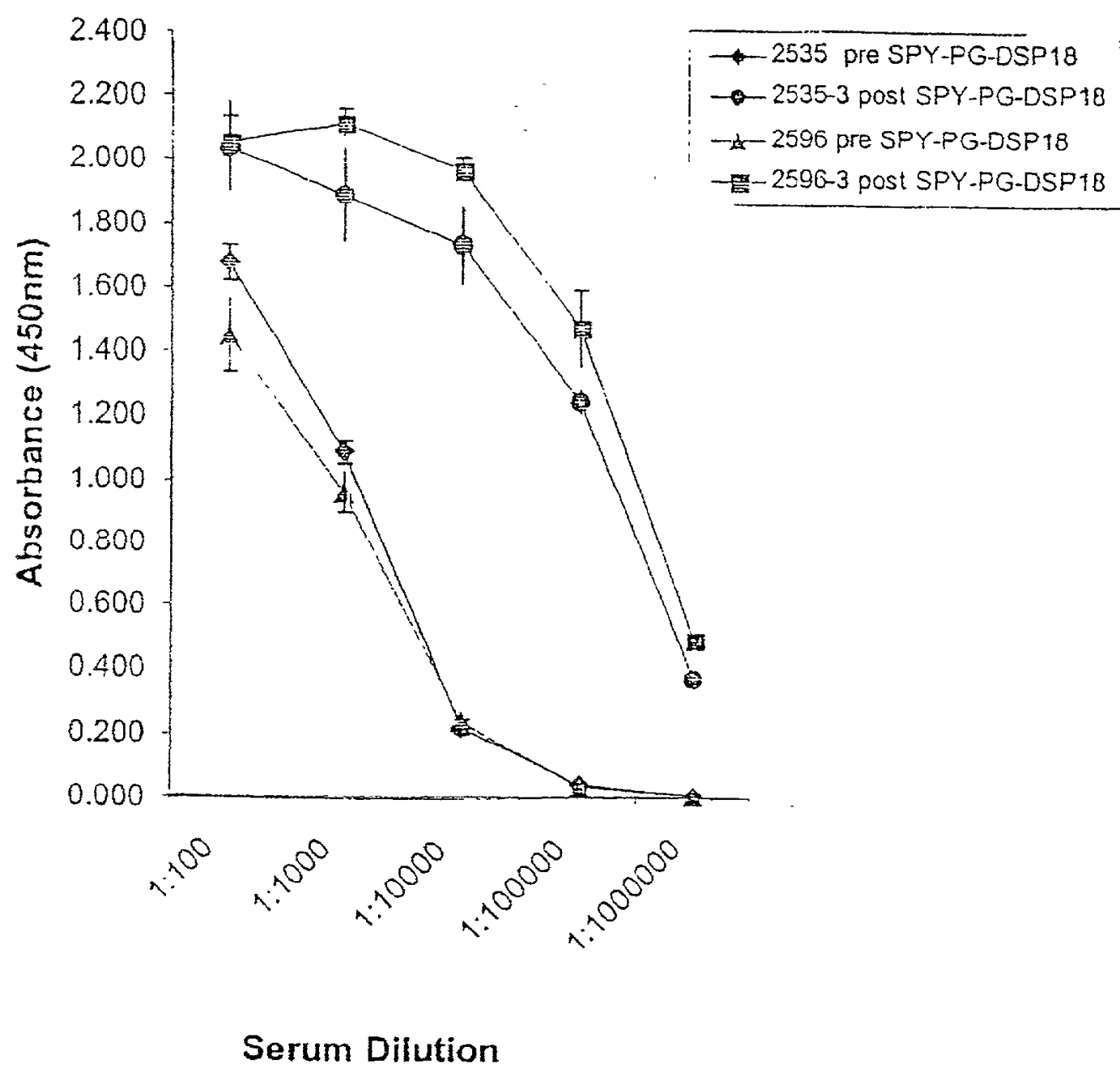


FIG. 8

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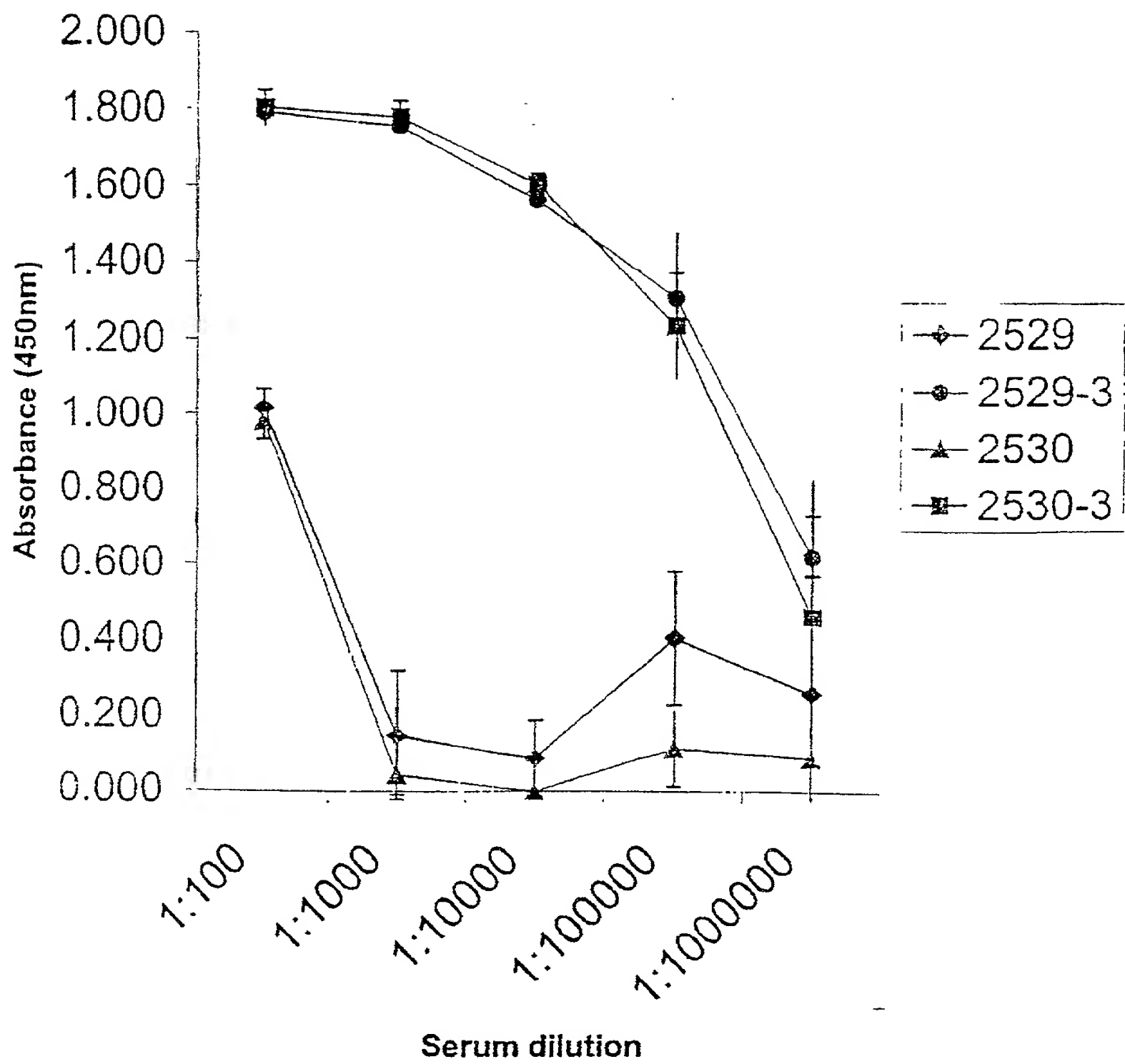
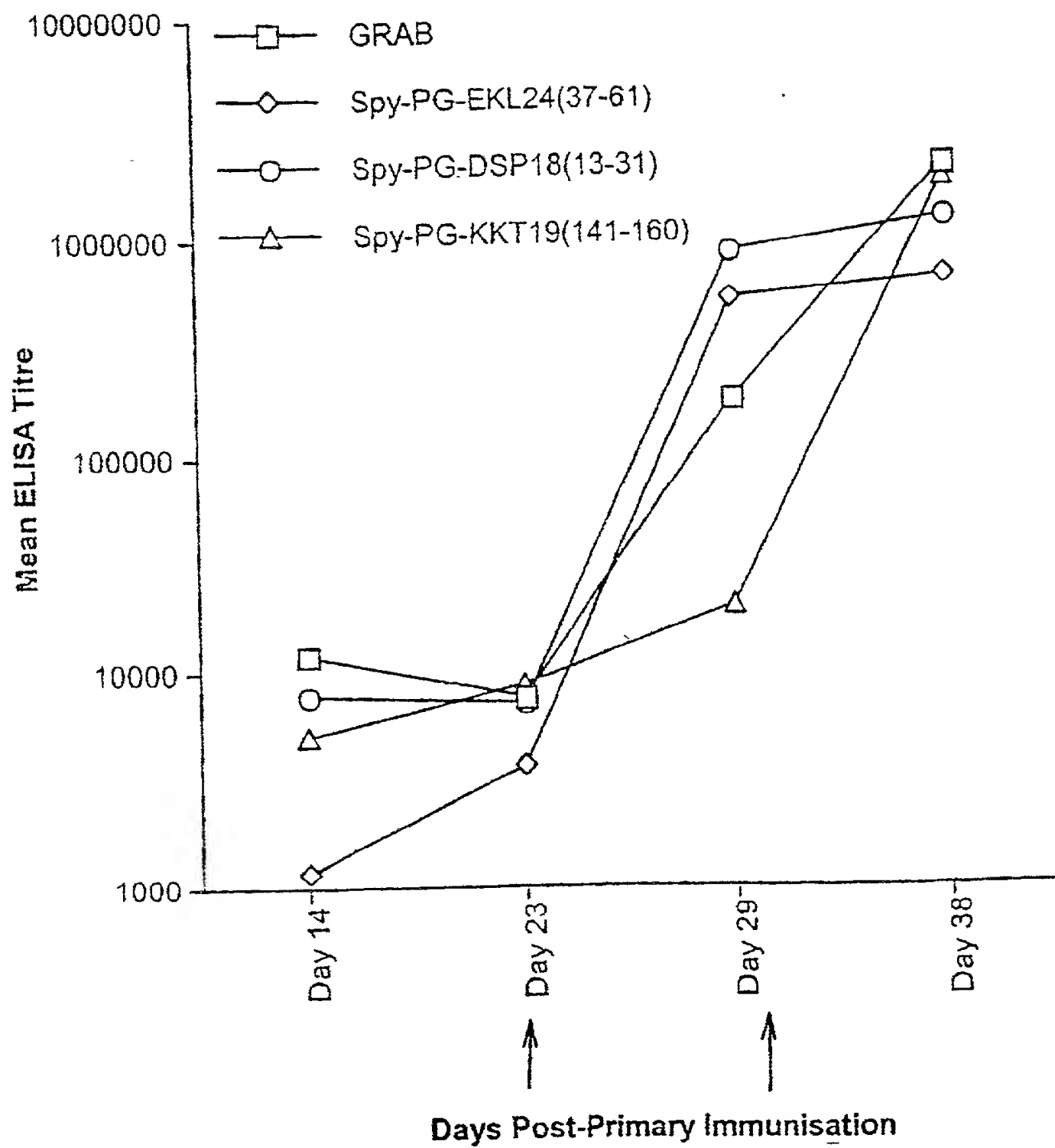


FIG. 9

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• Arrows indicate boost.
Boost 1= 30 µg
Boost 2= 15 µg

FIG. 10

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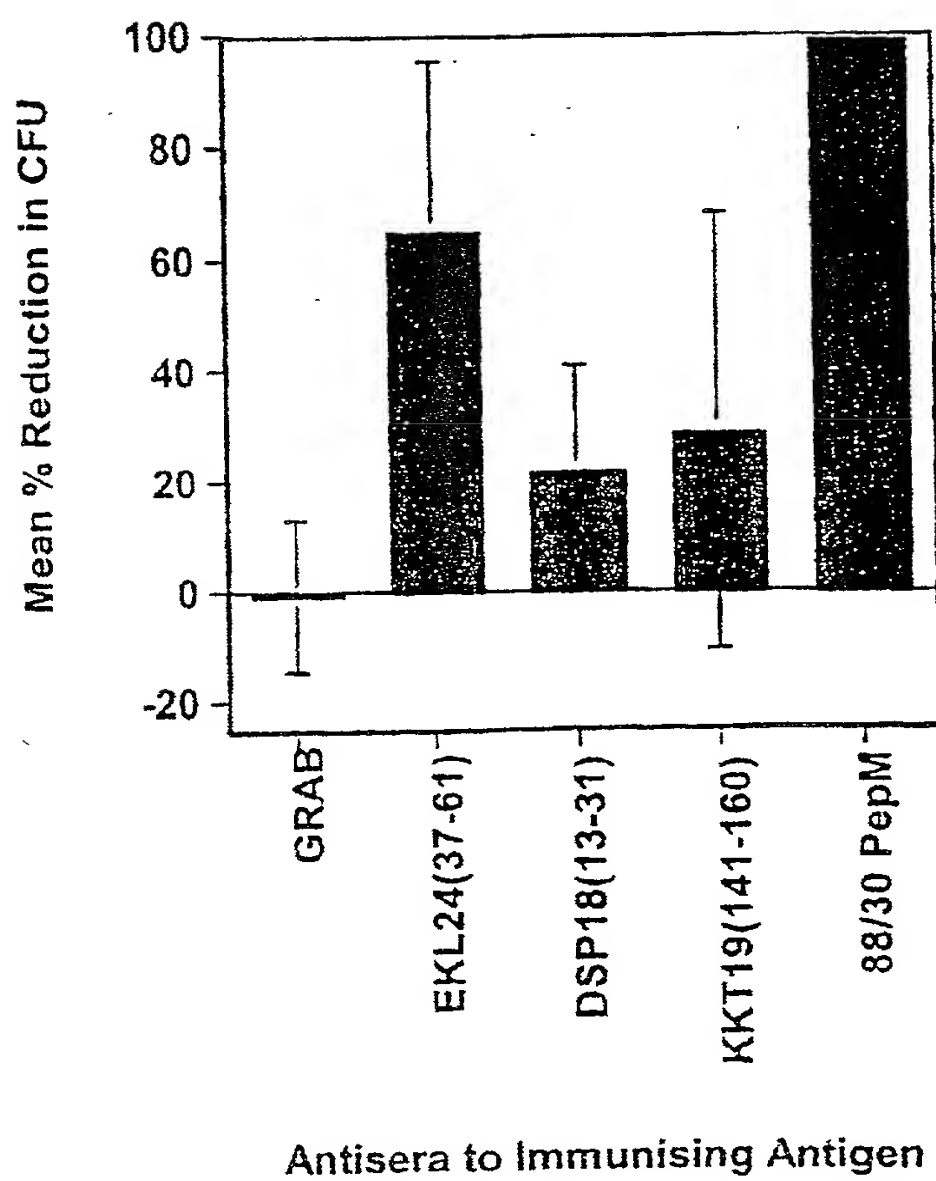


FIG. 11